

AMENDMENTS TO THE CLAIMS

PATENT
Attorney Docket No. UCSD-04742RECEIVED
CENTRAL FAX CENTER

JAN 11 2007

1-87. (canceled)

88. (currently amended) A method for screening for modulators of *Thermomyces lanuginosus*-γ (TL-γ)TL-γ comprising in operable order, the steps of:

(a) providing:

- (i) biologically active TL-γ, wherein the biological activity of said TL-γ comprises plus end-directed microtubule motor activity, and wherein said biologically active TL-γ comprises a motor domain sequence, wherein said motor domain sequence shares at least sixty percent sequence identity with the sequence comprising amino acids 1 through 357 of SEQ ID NO:1,
- (ii) a candidate agent, wherein said candidate agent is provided in a test concentration and a control concentration, and
- (iii) a testing assay;

(b) contacting said biologically active TL-γ with said test concentration of said candidate agent in said testing assay to produce a test mixture;

(c) contacting said biologically active TL-γ with said control concentration of said candidate agent in said testing assay to produce a control mixture;

(d) assaying the level of TL-γ activity in said test mixture;

(e) assaying the level of TL-γ activity in said control mixture;

(f) comparing the TL-γ activity of said test mixture and said control mixture, wherein the TL-γ activity comprises one or more of microtubule gliding, microtubule binding, microtubule depolymerization and ATPase activity, and wherein differences in the TL-γ activity in said test mixture and said control mixture indicate that said candidate agent is a modulator of TL-γ.

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